

538074

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number  
**WO 2004/063276 A1**

- (51) International Patent Classification<sup>7</sup>: C08L 33/02, D21C 9/16 // C01B 15/037
- (21) International Application Number: PCT/FI2004/000009
- (22) International Filing Date: 9 January 2004 (09.01.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
20030039 10 January 2003 (10.01.2003) FI
- (71) Applicant (for all designated States except US): KEMIRA OYJ [FI/FI]; Porkkalankatu 3, FIN-00180 HELSINKI, FI (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AHLGREN, Jonni [FI/FI]; Karitie 11 F 45, FIN-65200 VAASA, FI (FI). PARÉN, Aarto [FI/FI]; Kapteeninkatu 36 B 20, FIN-65200 VAASA, FI (FI). JÄKÄRÄ, Jukka [FI/FI]; Ahventie 1 B 22, FIN-65200 VAASA, FI (FI). HÄRMÄ, Timo [FI/FI]; Välimetsä 10 B, FIN-02300 ESPOO, FI (FI). RENVALL, Ilkka [FI/FI]; Purovarsi 4 B, FIN-02300 ESPOO, FI (FI).
- (74) Agent: BERGGREN OY AB; P. O. Box 16, (Jaakonkatu 3 A), FIN-00101 HELSINKI, FI (FI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: POLYMER COMPOSITION FOR PEROXIDE BLEACHING OF CELLULOSIC FIBRE MATERIAL AND PROCESSES FOR PEROXIDE BLEACHING

(57) Abstract: The present invention relates to a polymer composition for peroxide bleaching of a cellulosic fibre material, said composition being in the form of a stable aqueous polymer solution obtained by bringing in an aqueous medium a first polymer (A) comprising a partly or totally acidic homopolymer of acrylic acid, methacrylic acid or maleic acid, or a copolymer of acrylic acid and/or methacrylic acid with an unsaturated dicarboxylic acid, into contact with a second polymer (B) comprising a poly- $\alpha$ -hydroxyacrylic acid in solid form or as a moist powder or as a slurry, said polymer solution having a pH of at most 8. The invention also relates to peroxide bleaching processes.

WO 2004/063276 A1